

User manual

WSM-2 / 500 W polisher motor



Fig.: WSM-2

WASSERMANN
DENTAL-MASCHINEN



WASSERMANN DENTAL-MASCHINEN GMBH

Dear customer,

Thank you for choosing a product from the Wassermann range. Wassermann dental equipment incorporates the highest standards of quality and the latest technology. In order to enjoy maximum performance and years of trouble-free operation from the equipment, please read this user manual carefully before you start work, and operate the unit according to the recommended guidelines.

Keep this user manual on hand for ready reference.

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1 For your safety

1.1 Correct use of this product

Your polisher motor is designed for polishing dental products. The nuts on each side are used for undoing the polishing spindle and as a form of shaft protection.

1.2 Safety symbols used in this manual



Warning!

This is a warning of risk situations and dangers. Failure to observe this warning could be life-threatening. These warnings must be observed.



Information!

This symbol draws your attention to specific features, which should be noted.

1.3 Safety guidelines

Configuring and operating this equipment requires ***precise knowledge*** and ***observance*** of the instructions in this ***user manual***. The equipment is designed only for its intended application.



Servicing and repairs should be carried out only by authorised specialists.



Make sure that the unit is connected to the correct mains voltage.

1.4 Responsibility for operation and damage

The responsibility for operating the unit lies exclusively with the owner or user if the said unit is incorrectly serviced, maintained or altered by persons not employed by an accredited dealer or if the unit is used in a manner contrary to its specified purpose.

The unit must be maintained and operated in accordance with this user manual. Wassermann Dental-Maschinen GmbH is not responsible for damage arising from the **non-observance** of these instructions.

Guarantee and responsibility provisions contained in the sales and supply conditions of Wassermann Dental-Maschinen GmbH are not extended by these instructions.



Product responsibility lapses if the equipment is altered by unauthorized third parties or if non-original parts are installed. Use only original WASSERMANN replacement parts.

1.5 Authorized users

The owner of the equipment must ensure that any users have been provided with the user manual and that they have read and understood its contents before operating the equipment.



Ensure that this user manual is accessible at all times and has been read and understood.

2 Care and maintenance

2.1 Maintenance



Always disconnect the power cable before undertaking cleaning or maintenance.

The model plate must always be legible and should not be removed.

The equipment should be cleaned at regular intervals to ensure trouble-free operation. It requires only normal cleaning (sponge, damp cloth, mild detergent). Do not use chemical additives.

You should, however, make sure that the bores of the nuts for the brush spindle stay clean. Be especially careful when polishing with pumice.

When undoing the nuts, remember that the **left side has a right-handed thread** and the **right side a left-handed thread**.

2.2 Care



Remove external dirt from time to time with some form of cold cleaner.

Use only cold cleaners to avoid damaging the paintwork or removing the lettering.

Recommended: A151 universal cleaner.

3 Use/ Application

The WSM-2 polisher motor is a well-proven, efficient and maintenance-free single-phase AC motor (induction motor) with 2 speed options: 1500 rpm and 3000 rpm. It is fitted with low-noise, completely maintenance-free ball bearings. Shaft ends have 9 mm standard tapers for mounting the brush spindles.

4 Before you start

4.1 Unpacking / Transport

- Open the cartons, remove the packing materials, and carefully lift out the instrument and accessories. Check that the accessories are correct.
- Place the unit on a firm, level surface or mount it on the wall using the optional wall bracket.
- When transporting the unit, use appropriate packing materials to avoid accidental damage.



Locate the user manual and read it carefully.



When unpacking, it is important to identify any accidental transport damage. If necessary, draw up an immediate status report.

4.2 Contents

| | |
|--------|----------------------|
| 155999 | WSM-2 polisher motor |
| 152022 | Brush spindle, right |
| 152025 | Brush spindle, left |

4.3 Set-up and storage

The location of your polisher motor is very important for its operational reliability, even if it is only to be stored there for a short time. The room should be dry, well ventilated and vibration-free. An even temperature and wooden base are desirable.

The polisher motor must not be set up out of doors.

5 Installing the brush spindles

To use the polisher motor, you have to install the brush spindles, and that involves first removing the nuts. Use a cloth to clean the shaft ends and then replace the nuts.

Use compressed air to remove dust and grime from the brush spindles, then install the spindles as marked: **L = left and R = right**. Use a hammer and a piece of plastic to tap the spindles onto the end of the taper.

Excessive force could damage the ball bearings and void the warranty.

The spindles must run true when the motor is on. If they do not, repeat the above steps.

6 Start-up

The unit must be at room temperature before you start it.

1. Connect the polisher motor to the mains.
 2. Use the toggle switch to select the speed.
-

7 Troubleshooting / Correcting errors

| Fault | Likely cause | Likely solution |
|------------------------|-----------------------------|------------------------------------|
| Ball bearing noise | Faulty bearings | Change bearings |
| Spindles slip | Spindles too loose | Tap spindles lightly with a hammer |
| Spindles can be undone | Spindles too tight on taper | Contact Service |

If the above recommendations do not solve the problem, contact your dental depot or our Service department.

7.1 Technical data 155999

| | |
|--------------------------|----------------------|
| Voltage* | 220-240 V / 50/60 Hz |
| Power consumption | 2.3 A |
| Output | 500 W |
| Weight | 13.5 kg |

| | |
|----------------------|-------------------------------|
| Overall width | 460 mm incl. standard spindle |
| Depth | 195 mm |
| Height | 210 mm |

*Other Voltages upon enquiry.

 **Noise emission ≤ 70 db(A).**

 **We reserve the right to make technical changes.**

7.2 Accessories and spare parts

| Accessories | |
|--------------------|----------------------|
| Item number | Description |
| 155022 | Brush spindle, right |
| 155025 | Brush spindle, left |

| Spare parts | |
|--------------------|--|
| Item number | Description |
| 152022 | Brush spindle, right |
| 152025 | Brush spindle, left |
| 152043 | Brush spindle, long version, 125 mm, right |
| 152044 | Brush spindle, long version, 125 mm, left |
| 152056 | Holder, right |
| 152057 | Holder, left |

7.3 Repairs

Servicing or repairs to the unit must only be carried out by trained technicians.

Only original spares are to be used.

Responsibility for the product is voided if altered by unauthorized persons or if inappropriate components are installed.

8 Warranty

The warranty period for our equipment is 12 months. If faults occur within the warranty period, contact your dental depot or get in touch directly with our Service department.

Your WSM-2 polishing motor should only be operated in perfect condition. If faults occur which could harm operators or third parties, the unit should not be used until it has been fixed.

This warranty does not cover damage caused by improper use, external mechanical causes, transport damage or interference with the unit by unauthorized persons.

9 EC conformity certificate

in accordance with 73/23/EWG (low-voltage guidelines) modified by 93/68/EWG and 89/336/EWG (EMV guidelines) and 89/392/EWG (Machinery guidelines), with modifications

Manufacturer: W A S S E R M A N N Product description: Polisher motor for
Dental-Maschinen GmbH dental applications
Rudorffweg 15 - 17
D-21031 Hamburg

Model: WSM-2 / 500 W polisher motor 155999

Applicable standards: EN 61010-1:1993 + A2:1995
EN 60335/2/54 03.97
EN 50081-1 + EN 50082-1
DIN 45635-1

Hiermit wird bestätigt, dass die oben bezeichnete Maschine den genannten EG-Richtlinien entspricht. Diese Erklärung wird ungültig, falls die Maschine ohne unsere Zustimmung verändert wird.

This is to confirm that the above mentioned machine complies with the described EC rules. This declaration becomes invalid if the machine is modified without our approval.

Cette machine est conforme aux normes en vigueur de la Communauté Européene. Cet avis est nul et non avenant si cette machine est modifiée sans notre accord.


Esta máquina, anteriormente mencionada, cumple con los limites requeridos por el reglamento EC. Ahora bien, esta declaración quedará invalidada en caso de realizar modificaciones al aparato sin nuestra aprobación.

Hiermee wordt bevestigd dat bovengenoemde machine voldoet aan de voorgeschreven EU normen. Deze verklaring verliest geldigheid als er zonder onze uitdrukkelijke toestemming wijzigen aan de machine worden aangebracht.

Place, date: Hamburg, 10 April 2003

Company stamp:

Signed: _____



Wilfried Wassermann
(Managing Director)



Notice:

Notice:

Notice:

Notice:



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